

MODEL 82

1/4" Diameter

Single Turn

Cermet Trimming

Potentiometer

1



ELECTRICAL

Standard Resistance Range, Ohms	10 to 1Meg
Standard Resistance Tolerance	±10% (<100 Ohms = ±20%)
Input Voltage, Maximum	200 Vdc or rms not to exceed power rating
Slider Current, Maximum	100mA or within rated power, whichever is less
Power Rating, Watts	0.5 at 70°C derating to 0 at 125°C
End Resistance, Maximum	2 Ohms
Actual Electrical Travel, Nominal	220°
Dielectric Strength	600 Vrms
Insulation Resistance, Minimum	1,000 Megohms
Resolution	Essentially infinite
Contact Resistance Variation, Maximum	1% or 1 Ohm, whichever is greater

ENVIRONMENTAL

Seal	85°C Fluorinert® (No Leaks)
Temperature Coefficient, Maximum	±100ppm/°C
Operating Temperature Range	-55°C to +125°C
Thermal Shock	5 cycles, -55°C to +125°C (1% ΔRT, 1%ΔVR)
Moisture Resistance	Ten 24 hour cycles (1% ΔRT, IR 100 Megohms Min.)
Shock, 6ms Sawtooth	100G's (1% ΔRT, 1% ΔVR)
Vibration	20G's, 10 to 2,000 Hz (1% ΔRT, 1% ΔVR)
High Temperature Exposure	250 hours at 125°C (2% ΔRT, 2% ΔVR)
Rotational Life	200 cycles (3% ΔRT)
Load Life at 0.5 Watts	1,000 hours at 70°C (2% ΔRT)
Resistance to Solder Heat	260°C for 10 sec. (1% ΔRT)

MECHANICAL

Mechanical Stops	Solid
Torque, Starting Maximum	3 oz.-in. (0.021 N-m)
Weight, Nominal	.02 oz. (0.60 grams)

Fluorinert® is a registered trademark of 3M Company.
Specifications subject to change without notice.



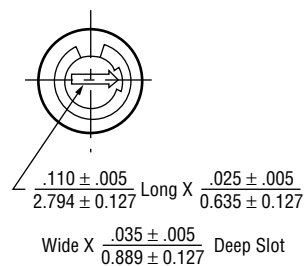
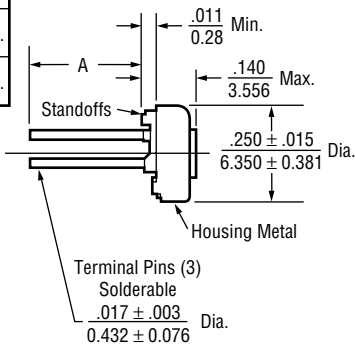
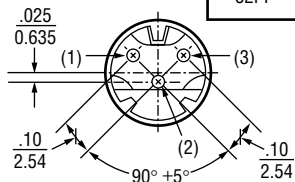
1-65

Model 82

TOP ADJUSTMENT (Inch/mm)

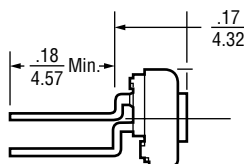
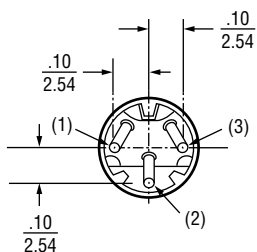
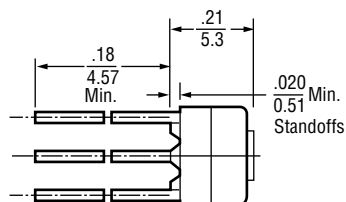
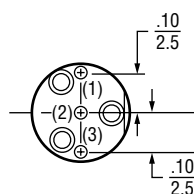
Model 82P, 82PF

Model	Dim. A
82P	$\frac{.25}{6.35}$ Min.
82PF	$\frac{.625}{15.875}$ Min.

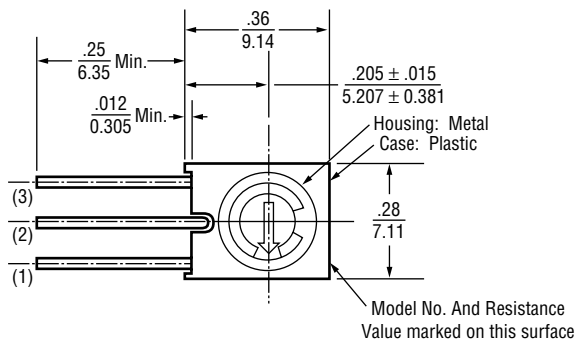
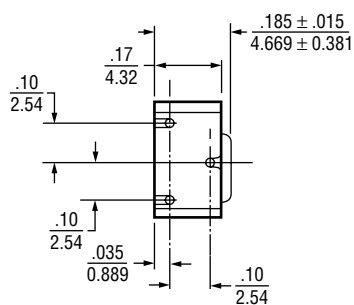


Note: Model 82P dimensions applicable to all models except as noted.

Model 82M

**Model 82W**

SIDE ADJUSTMENT (Inch/mm)

Model 82PA

STANDARD RESISTANCE VALUES, OHMS

10	100	1K	10K	50K	250K
20	200	2K	20K	100K	500K
50	500	5K	25K	200K	1Meg

1**PACKAGING****Standard:** Boxes

Capacity	=	50 Units (82PA, 82PF)
	=	100 Units (All other styles)

Option: Tubes

All units oriented with #1 pin to same side.

	Pin Style		PA	P,M,W
Magazine	Width	=	0.28"	0.34"
	Height	=	0.94"	0.65"
	Length	=	15.6"	27.5"
	Capacity	=	50 Units	100 Units

Option: Tape & Reel, Ammo Pack (Available for 82W Only)

All units oriented with #1 pin to the right of the direction of feed.

	Seat Plane to Centerline of Sprocket Hole	=	.71" (18.03 mm)
Tape	Width	=	18 mm
	Sprocket	=	Single Hole .50" spacing
	Capacity	=	1,000 Units
Reel	Diameter	=	14" (356 mm)
Ammo	Tape Fold	=	12" (305 mm)
	Box	=	1.5" x 13" x 10"

ORDERING INFORMATION

Standard:

Model Series — 82 P R 10K LF
 Pin Style — — — — —
 RoHS Compliant Product Code - Optional
 Resistance Value
 Resistance Prefix

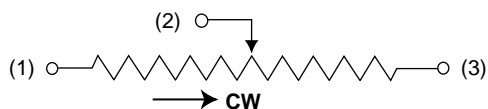
Option:

Pin Style — 82 W R 10K LF TB
 Packaging Option:
 TB = Tubes
 (Pin styles P, PA, M, W)
 RoHS Compliant Product Code - Optional

Option:

Pin Style — 82 W F R 10K LF TR
 Pin Style Suffix: —
 (Used with AP and TR packaging options.
 Applicable to pin styles W only.
 "F" designates 0.60" lead length.)
 Packaging Option:
 AP = Ammo pack
 TR = Tape & Reel
 (Pin styles W, X only)
 RoHS Compliant Product Code - Optional

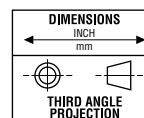
CIRCUIT DIAGRAM



NOTES

Metric equivalents, based on 1 inch = 25.4mm are rounded to the same number of significant figures as in the original English units and are provided for general information only.

Tolerances unless otherwise specified:
 Linear = $\pm .01$ inches (.25mm)
 Angular = ± 2 degrees



Mouser Electronics

Authorized Distributor

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[82PSWLF](#)